

MAY 26 2004

PATENT & TRADEMARK OFFICE  
U.S. DEPARTMENT OF COMMERCE0010/PCT  
REG. NO. 95U.S. Department of Commerce  
Patent and Trademark Office
**COMBINED DECLARATION (37 CFR  
1.63) AND POWER OF ATTORNEY  
FOR UTILITY OR DESIGN  
PATENT APPLICATION**

Declaration  
Submitted  
with Initial Filing      OR       Declaration  
Submitted after  
Initial Filing

Attorney Docket Number	23019-07460
First Named Inventor	Ramesh Yarlagadda
<i>COMPLETE IF KNOWN</i>	
Application Number	10/734,082
Filing Date	December 10, 2003
Group Art Unit	2186
Examiner Name	not yet known

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## High Bandwidth Memory Management Using Multi-Bank DRAM Devices

the specification of which *(Title of Application)* is attached hereto

OR

was filed on (MM/DD/YYYY) [ 12/10/2003 ] as United States Application Number or PCT International Application Number [ 10/734,082 ] and was amended on (MM/DD/YYYY) [ \_\_\_\_\_ ] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	Certified Copy Attached? NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 Additional foreign application numbers are listed on a supplemental priority sheet attached hereto:

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental sheet attached hereto.
60/ 432,528	12/10/2002	

**DECLARATION**

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I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Name	Registration Number	Name	Registration Number
Greg T. Sueoka	33,800	Eileen A. Lehmann Robert Hulse	39,272 48,473

Additional attorney(s) and/or agent(s) named on a supplemental sheet attached hereto.

Please direct all correspondence to:

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U.S.A.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Name of Sole or First Inventor:**

A petition has been filed for this unsigned inventor

Given Name	Ramesh	Middle Initial		Family Name	Yarlagadda	Suffix	
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Inventor's Signature	<i>Ramesh Yarlagadda</i>				Date	5/18/04
Residence: City	Pleasanton	State	CA	Country	U.S.A.	Citizenship U.S.A.

Mailing Address							
Mailing Address	6350 Stoneridge Mall #G107						

City	Pleasanton	State	CA	Zip	94588	Country	U.S.A.
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Additional inventors are being named on supplemental sheet(s) attached hereto

DECLARATION					ADDITIONAL INVENTOR(S) Supplemental Sheet					
Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name	Shwetal		Middle Initial		Family Name	Desai		Suffix		
Inventor's Signature	<i>S.C. Desai</i>					Date	5/18/2004			
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Mailing Address										
City	Fremont		State	CA	Zip	94555	Country	U.S.A.		

Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name	Harish		Middle Initial	R.	Family Name	Devanagondi		Suffix		
Inventor's Signature	<i>D.R. Harish</i>					Date	5/13/2004			
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Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name			Middle Initial		Family Name				Suffix	
Inventor's Signature						Date				
Residence: City				State		Country			Citizenship	
Mailing Address										
Mailing Address										
City			State		Zip		Country			

Name of Additional Joint Inventor, if any:					<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name			Middle Initial		Family Name				Suffix	
Inventor's Signature						Date				
Residence: City				State		Country			Citizenship	
Mailing Address										
Mailing Address										
City			State		Zip		Country			
<input type="checkbox"/> Additional inventors are being named on supplemental sheet(s) attached hereto										